

GENERAL CONSTRUCTION NOTES:






INSTALLATION AND CONSTRUCTION SHALL CONFORM TO THE DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS SECTIONS APPLICABLE AND STANDARD PLANS DATED AND EFFECTIVE FOR THE CURRENT YEAR AND ANY SPECIAL MUNICIPALITY CODE PROVISIONS.

1. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE SUBCONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES INCLUDING THOSE NOT SHOWN ON PLANS AND VERIFY ALL JOB SITE CONDITIONS, HAND EXCAVATE FOUNDATION UNTIL CLEAR OF ALL SUBSTRUCTURES AND PROTECT ALL FACILITIES DURING CONSTRUCTION. SUBCONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR UNDERGROUND UTILITY REMOVAL OR LOCATION WITH RESPECTIVE UTILITY OWNERS AS MAY BE REQUIRED SUFFICIENTLY IN ADVANCE TO PREVENT DELAY IN OPERATIONS.
2. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND UTILITIES ENCOUNTERED IN AREAS WHERE EXCAVATIONS ARE INDICATED AND SHALL REPAIR ANY SUCH DAMAGE AT OWN EXPENSE. WHERE UTILITY LINES MUST BE MAINTAINED UNDER STRUCTURE, THEY SHALL BE PROPERLY SLEEVED THROUGH FOUNDATION.
3. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR REPAIR OF ANY DAMAGE CAUSED BY THEM OR THEIR SUBCONTRACTORS.
4. THE SUBCONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND NOTIFY ALL UTILITIES AND THE CITY AT LEAST 72 HOURS IN ADVANCE OF CONSTRUCTION.
5. THE SUBCONTRACTOR SHALL CALL THE TRANSPORTATION TRAFFIC DIVISION, FIVE (5) DAYS PRIOR TO THE START OF WORK FOR A TRAFFIC CONTROL PLAN APPOINTMENT
6. THE SUBCONTRACTOR IS REQUIRED AND MUST SUBMIT A WEEKLY SCHEDULE PRIOR TO START OF WORK EACH WEEK. (NO EXCEPTIONS)
7. POLE DETECTOR AND EQUIPMENT LOCATIONS SHALL BE AS DEPICTED ON SITE PLAN. THE SUBCONTRACTOR SHALL VERIFY EQUIPMENT FIELD LOCATIONS WITH THE CONDUENT IMPLEMENTATION MANAGER (301) 300-8155 OR LOCAL AND/OR EXCAVATION AUTHORITY AND CONDUENT PRIOR TO INSTALLATION.
8. THE SUBCONTRACTOR SHALL SUPPLY AND INSTALL ALL CONDUCTORS NECESSARY FOR THE INTENDED OPERATION AS NOTED ON THESE PLANS, NEC AND ALL APPLICABLE MUNICIPALITY CODES.
9. PROVIDE ANCHOR BOLT NUT COVERS IF REQUIRED DUE TO EXTERIOR INSTALLATION.
10. ALL PULLBOXES AND COVERS SHALL BE CONCRETE OR PVC AS REQUIRED BY THE MUNICIPALITY. ALL PULLBOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED OR REQUIRED BY THE MUNICIPALITY.
11. ALL CONCRETE FORMS ARE TO BE INSPECTED BY LOCAL AUTHORITIES BEFORE CONCRETE IS PLACED.
12. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND COORDINATION WITH THE SERVING (ELECTRICAL) UTILITY COMPANY AND PAY REQUIRED FEES FOR SERVICE CONNECTIONS.
13. THE SUBCONTRACTOR TO OBTAIN A NO FEE ENCROACHMENT PERMIT FROM THE CITY PRIOR TO COMMENCEMENT OF WORK. ALL WORK SHALL BE INSPECTED BY CITY FORCES. AT COMPLETION OF PROJECT CONTACT THE CITY TRAFFIC ENGINEER 24 HOURS PRIOR TO COMPLETION OF WORK.

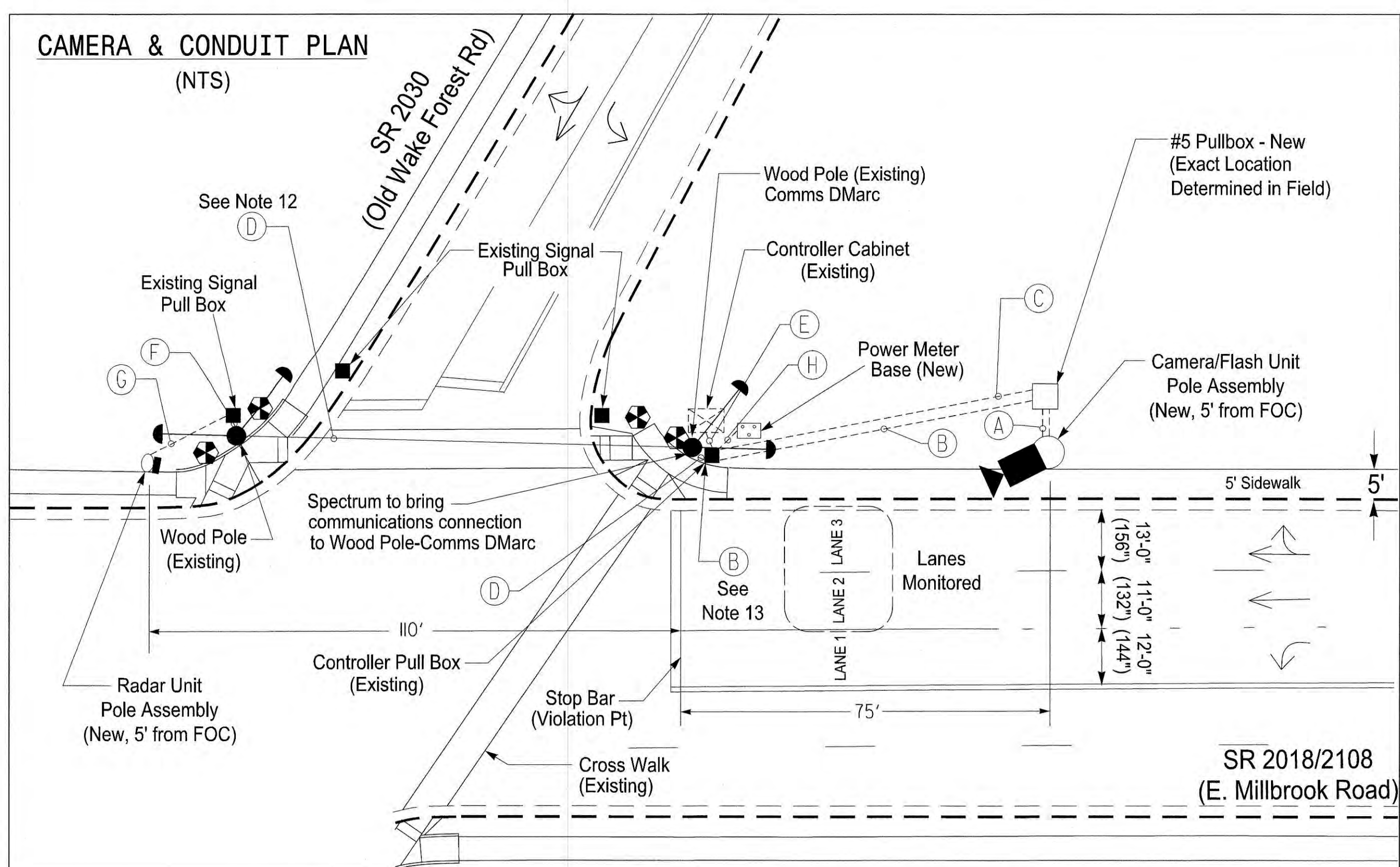
14. THE SUBCONTRACTOR IS TO BUILD AND MAINTAIN A CONSTRUCTION BARRICADE (ALL NECESSARY LIGHTS, SIGNS, ETC. IF REQUIRED) FOR PROTECTION OF THE PUBLIC AS DIRECTED BY THE LOCAL AUTHORITIES.
 15. ALL SUBCONTRACTORS TO PROVIDE LIABILITY INSURANCE AND WORKERS COMPENSATION BENEFITS IN ACCORDANCE WITH STATE LAW FOR ALL WORKERS AND AGENTS WHO WILL BE ON THE SITE AT ANY TIME WHILE PERFORMING WORK ON THIS PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH NEC, ALL LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND ANY APPLICABLE AMENDMENTS.
 16. ALL DEBRIS, EXCESS MATERIAL, ETC. IS TO BE REMOVED BY THE SUBCONTRACTOR BY THE END OF THE JOB. JOB TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT CITY APPROVAL.
 17. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES AND INSPECTIONS AS MAY BE REQUIRED FOR COMPLETION OF THE JOB AS PER ALL GOVERNING AGENCIES.
 18. THE SUBCONTRACTOR TO PROVIDE COST ESTIMATE FOR ALL WORK SHOWN ON DRAWINGS AND WORK NORMALLY REQUIRED TO CARRY OUT THE DESIGN INTENT OF THESE DRAWINGS.
 19. DRAWINGS ARE NOT TO BE SCALED. WORK SHALL BE GOVERNED BY DIMENSION ONLY. DISCREPANCIES BETWEEN THE DRAWINGS AND/OR THE EXISTING SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF CONDUENT IMMEDIATELY.
 20. P.R.C. EQUIPMENT SHALL NOT BE INSTALLED ON MEDIANS LESS THAN FIVE FEET (5') IN WIDTH.
 21. P.R.C. RELATED EQUIPMENT SHALL NOT BE INSTALLED WITHIN FIVE FEET (5') OF FIRE HYDRANT.
 22. P.R.C. RELATED EQUIPMENT SHALL NOT BE INSTALLED WITHIN FOUR FEET (4') OF ADA RAMPS.
 23. SUBCONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS TO CONDUENT ENGINEERING DEPARTMENT WITHIN THIRTY (30) DAYS OF CONSTRUCTION COMPLETION.
 24. SUBCONTRACTOR SHALL COMPLETE A "RLC POST CONSTRUCTION INSTALLATION ACCEPTANCE FORM" FOR EACH RLC INSTALLED. COMPLETED FORMS SHALL BE FORWARDED TO CONDUENT CONSTRUCTION DEPARTMENT.
 25. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE OWNERS AND OTHER AGENCIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- CONTACT:
- * GAS COMPANY
 - * WATER DISTRICT
 - * PHONE COMPANY
 - * CABLE COMPANY
 - * LOCAL AND/OR STATE EXCAVATION AUTHORITY

SPECIFIC CONSTRUCTION NOTES:

1. THE SUBCONTRACTOR SHALL INSTALL ALL SUBSTRUCTURES ACCORDING TO LOCAL GOVERNING AGENCY FROST LINE REQUIREMENTS WHERE APPLICABLE.
2. THE SUBCONTRACTOR SHALL MODIFY ALL SIDEWALKS WHERE NECESSARY, IN COMPLIANCE WITH THE ADA STANDARDS TO ALLOW ACCESS FOR HANDICAP PEDESTRIAN PASSAGE.

INDEX OF PLANS		Red Light Camera Installation - General Notes & Index			
SHEET NUMBER	LOCATION/DESCRIPTION	CONDUENT	Prepared for the Offices of:  TRANSPORTATION Mobility and Safety Division DEPARTMENT OF TRANSPORTATION Signal Design Section	SR 2018/2108 (E. Millbrook Rd) at SR 2030 (Old Wake Forest Rd) Division 5 Wake County Raleigh PLAN DATE: Apr 2017 REVIEWED BY:  PREPARED BY:  MAN PROJECT NO.: 9767.00	 4-26-2017
SIG 1.0	GENERAL NOTES	12410 MILESTONE CENTER DRIVE 4TH FLOOR GERMANTOWN, MD 20876 PREPARED BY:  4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4889 FAX NCPE LICENSE NO.: F-0105	750 N. Greenfield Pkwy, Garner, NC 27529 SCALE NONE	REVISIONS INIT. DATE	SIG. INVENTORY NO. 05-0467
SIG 1.1	SITE PLAN				
SIG 1.2	SINGLE LINE DIAGRAM				
SIG 1.3	CAMERA POLE WIRING DIAGRAM				
SIG 1.4	CAMERA & RADAR POLE DETAILS				
SIG 1.5	CAMERA UNIT/FLASH UNIT CONFIGURATION WITH APPROACHING RADAR DETECTION				

CAMERA & CONDUIT PLAN
(NTS)



SE-PAC 2070 LOOP & DETECTOR UNIT INSTALLATION CHART																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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SE-PAC 2070 TIMING CHART					
PHASE					
1	2	4	5	6	8
7	12	7	7	12	7
1.0	2.0	2.0	2.0	2.0	2.0
15	45	20	15	45	15
3.0	4.6	4.3	3.0	4.6	4.3
3.5	1.9	1.7	3.2	1.9	1.8
-	7	7	-	7	7
-	13	20	-	13	18
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	MIN RECALL	-	-	MIN RECALL	-
NON-LOCK	LOCK	NON-LOCK	NON-LOCK	LOCK	NON-LOCK
-	-	ON	-	-	ON
ON	ON	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

NORMAL PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE				
	0 1 + 5	0 1 + 6	0 2 + 5	0 2 + 8	FL ASH
11	←	←	$\frac{F}{Y}$	$\frac{F}{Y}$	$\frac{Y}{Y}$
21, 22	R	R	G	G	R
41, 42	R	R	R	R	G
51	←	$\frac{F}{Y}$	←	$\frac{F}{Y}$	$\frac{Y}{Y}$
61, 62	R	G	R	G	R
81, 82	R	R	R	R	G
P21, P22	DW	DW	W	W	DW DR
P41, P42	DW	DW	DW	DW	W DR
P61, P62	DW	DW	DW	DW	DW DR
P81, P82	DW	DW	DW	DW	DR

ALTERNATE PHASING
TABLE OF OPERATION

SIGNAL FACE	PHASE					F S H
	0 1 + 5	0 1 + 6	0 2 + 5	0 2 + 6	0 4 + 8	
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DR
P41, P42	DW	DW	DW	DW	W	DR
P61, P62	DW	W	DW	W	DW	DR
P81, P82	DW	DW	DW	DW	W	DR

NOTES

1. CONDUENT TO PROVIDE PHOTO ENFORCEMENT EQUIPMENT AND POLES, CONTRACTOR TO PROVIDE POLE FOUNDATIONS. POLES SHALL BE FIELD LOCATED AND SHALL BE 5 FT. MINIMUM FROM FACE OF CURB TO CENTER OF BASE, SEE DETAIL. LOCATION OF EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. INSTALL TO LOCAL AND NEC SPECIFICATIONS.
3. EACH POLE SHALL BE GROUNDED WITH #6 SOLID GROUND WIRE AND 10' GROUND ROD.
4. CONTRACTOR SHALL HAND DIG POLE FOUNDATION FOR CAMERA AND RADAR UNIT POLES.
5. CONDUIT SHALL BE INSTALLED BY MEANS OF TRENCHING AND/OR DIRECTIONAL BORING. TRENCHING AND BORING SHALL BE IN ACCORDANCE TO CURRENT DOT STANDARD SPECIFICATIONS.
6. CONTRACTOR TO CLEAN UP DEBRIS AROUND WORK AREA AND RESTORE LANDSCAPE.
7. INSTALL NEW PULL BOX - SEE GENERAL NOTES #10, SHEET SIG. 1.0.
8. INSTALL IN-LINE FUSE HOLDERS RATED AT 20 AMPS FOR POWER.
9. INSTALL IN-LINE FUSE HOLDERS RATED AT 5 AMPS FOR PHASE CONDUCTORS.
10. INSTALL IN-LINE FUSE HOLDERS RATED AT 15 AMPS FOR EACH AUX FLASH POWER.
11. CONTRACTOR SHALL REPAIR AND REPLACE SIDEWALK AND LANDSCAPING TO THEIR ORIGINAL CONDITION OR BETTER AS REQUIRED TO INSTALL EQUIPMENT AND CONDUITS.
12. STRAP "D", #18 AWG SOLID BARE COPPER RADAR CABLE TO EXISTING SIGNAL MESSENGER CABLE.
13. CONTRACTOR SHALL INSTALL JET LINE IN COMMS CONDUIT FOR PULLING OF FUTURE CABLE. CONDUIT TO EXTEND UP POLE 8' TO PREVENT TAMPERING.

CONDUIT SCHEDULE

LETTER	CONDUIT SIZE	CONDUIT CONSTRUCTION	TYPE OF SERVICE	EQUIPMENT SERVICED	CABLE QUANTITY	CABLE DETAILS
(A)	2"	PVC	POWER	CAMERA UNIT - RED, YELLOW, & GREEN PHASE/RADAR	3	(3) (5) (7) ()
(B)	2"	PVC	COMMS	TO D-MARC LOCATION	1	(6) () () ()
(C)	2"	PVC	POWER	CAMERA UNIT - RED, YELLOW, & GREEN PHASE/RADAR	3	(3) (5) (7) (8)
(D)	2"	PVC	POWER	RADAR UNIT	1	(8) () () ()
(E)	EX	-	POWER	CAMERA UNIT - RED, YELLOW, & GREEN PHASE	1	(5) () () ()
(F)	EX	-	POWER	RADAR UNIT	1	(8) () () ()
(G)	2"	PVC	POWER	RADAR UNIT	1	(8) (7) () ()
(H)	2"	PVC	POWER	CAMERA UNIT	3	(3) (7) () ()





CABLE SCHEDULE

- ① #14 AWG THHN
- ② #12 AWG THHN
- ③ #8 AWG THHN
- ④ CAT-5e (BELDEN 7919A OR EQUIVALENT)
- ⑤ 7-CONDUCTOR CABLE #14 AWG
- ⑥ COMMUNICATIONS CABLE (TO BE PROVIDED BY OTHERS)
- ⑦ #6 GROUND WIRE
- ⑧ #18 AWG SOLID BARE COPPER RADAR CABLE PART #04S18A4



LEGEND

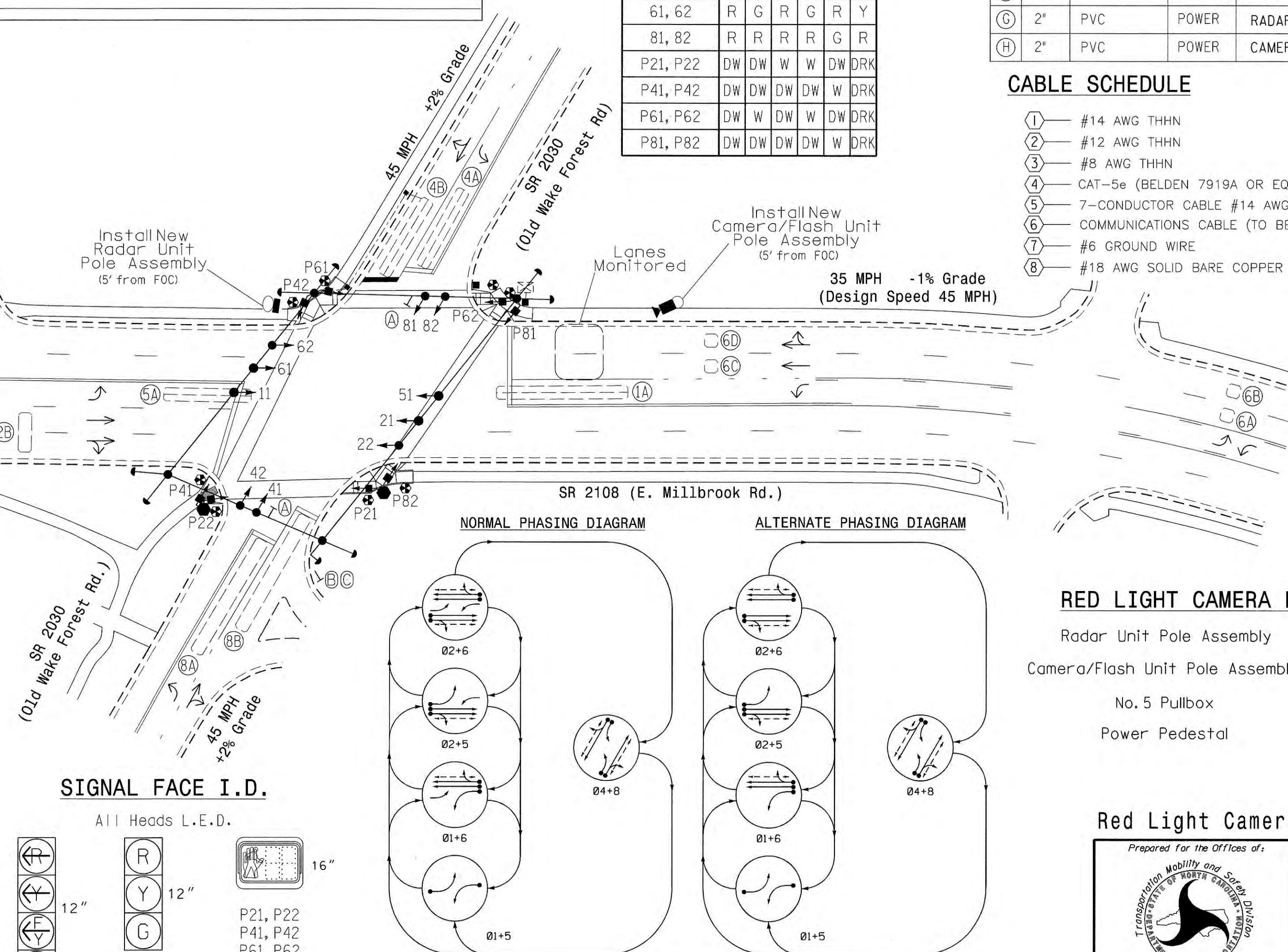
PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Stop Bar	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
N/A	Curb Ramp	
	Left Arrow "ONLY" Sign (R3-5L)	
	"STOP" Sign (R1-1)	
	Right Arrow "ONLY" Sign (R3-5R)	

RED LIGHT CAMERA LEGEND

Radar Unit Pole Assembly	
Camera/Flash Unit Pole Assembly	
No. 5 Pullbox	
Power Pedestal	

Red Light Camera Installation - Site Plan

<p>Prepared For the Offices of:</p>  <p>TRANSPORTATION MOBILITY AND SAFETY DIVISION DEPARTMENT OF TRANSPORTATION STANDARD DESIGN SECTION</p>	<p>SR 190/2108 (E. Millbrook Rd) at SR 2030 (Old Wake Forest Rd)</p>		<p>SEAL</p>																								
	<p>Division 5 Wake County Raleigh</p>																										
	<p>PLAN DATE: Apr 2017</p>	<p>REVIEWED BY: [Redacted]</p>																									
	<p>750 N. Greenfield Pkwy, Corner, NC 27529 PREPARED BY: [Redacted] MAIN PROJECT NO.: 9767.00</p>																										
 <p>SCALE</p> <p>0 40</p> <p>1" = 40'</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVISIONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		REVISIONS	INIT.	DATE																						<p>4-26-2017</p> <p>SIG. INVENTORY NO. 05-0467</p>
	REVISIONS	INIT.	DATE																								



SIGNAL FACE I.D.

All Heads L.E.D.

Diagram illustrating the layout of the signs for the intersection of 11th and 51st Streets. The signs are arranged in two vertical columns, each 12 inches wide. The left column contains four left-turn arrows. The right column contains four signs with the letters R, Y, and G. To the right of the sign columns is a rectangular sign with a pedestrian crossing symbol and the text 'P21, P22 P41, P42 P61, P62 P81, P82'.

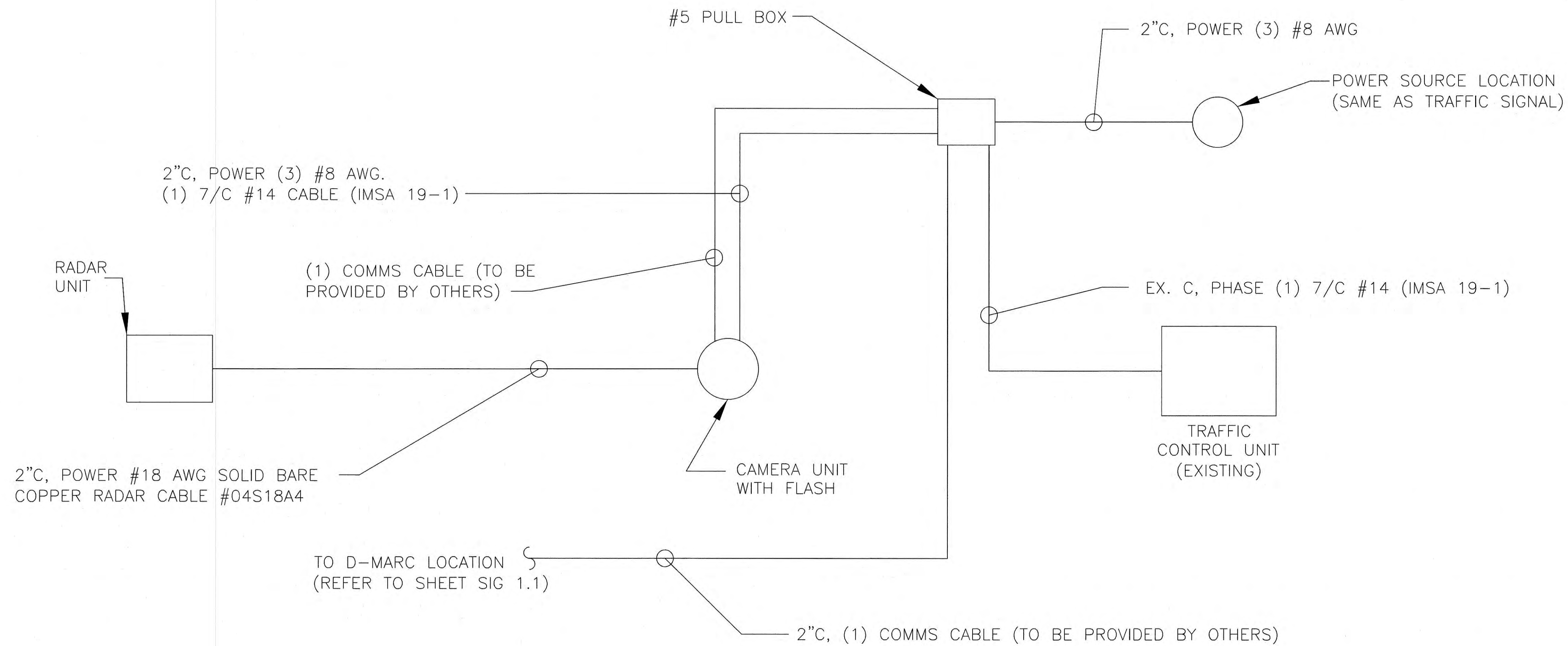
CONDUENT
12410 MILESTONE CENTER DRIVE
4TH FLOOR
GERMANTOWN, MD 20876

PREPARED BY:

 **moffatt & nichol**

4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4626 VOICE (919) 781-4869 FAX

\$\$\$\$SYTIME\$\$\$\$
 \$\$\$\$DGN\$\$\$\$\$

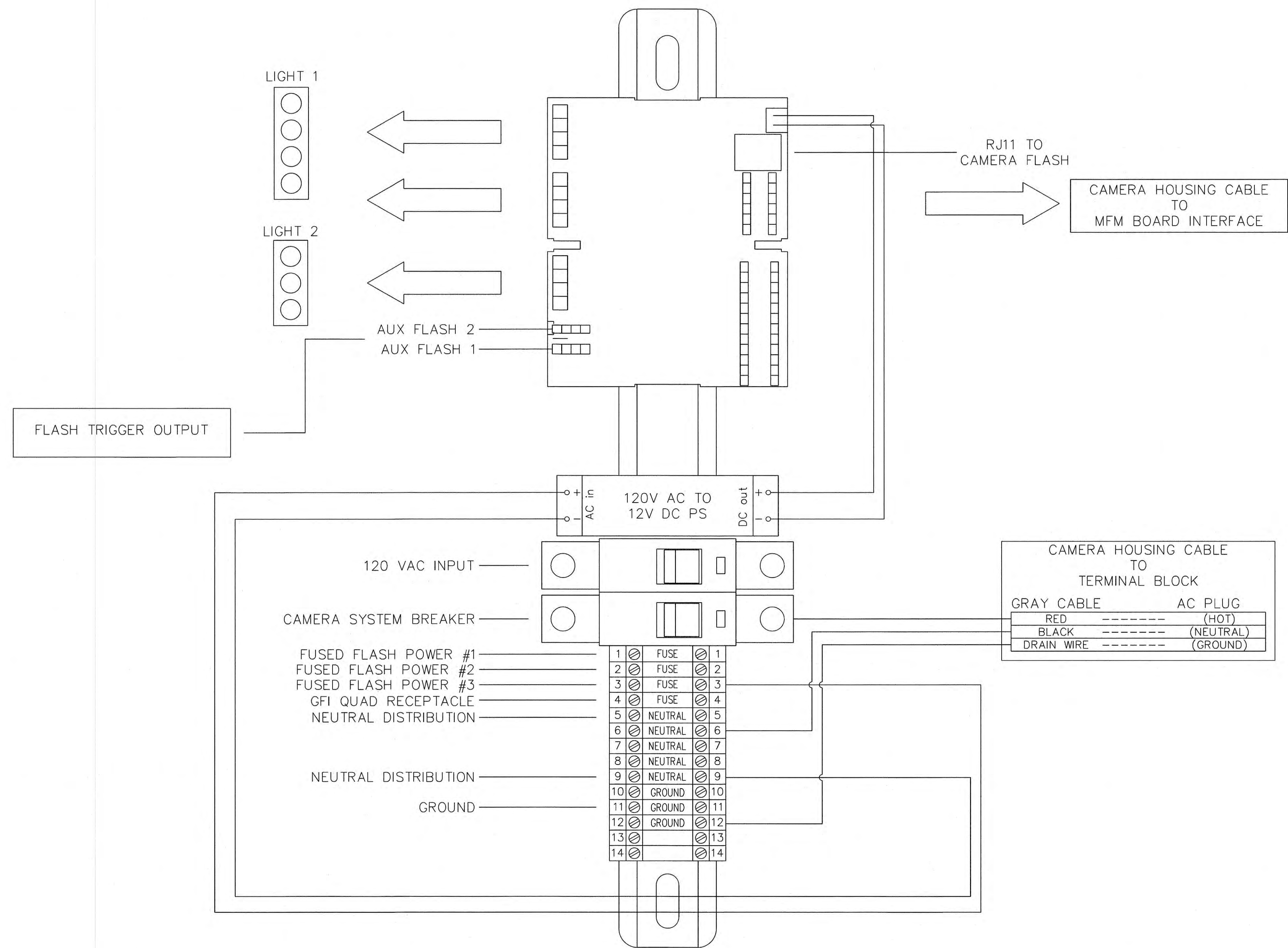


Red Light Camera Installation - Single Line Diagram

CONDUENT
12410 MILESTONE CENTER DRIVE
4TH FLOOR
GERMANTOWN, MD 20876
PREPARED BY: **moffatt & nichol**
4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4623 VOICE (919) 781-4869 FAX
NCPE LICENSE NO.: P-0105

	SR 2018/2108 (E. Millbrook Rd) at SR 2030 (Old Wake Forest Rd)	
	Division 5	Wake County Raleigh
PLAN DATE: Apr 2017	REVIEWED BY:	
PREPARED BY:	MAN PROJECT NO.: 9767.00	
SCALE	REVISIONS	INIT. DATE
NONE		

SIG. INVENTORY NO. 05-0467



NOTE: SERVICE DISCONNECT TO BE PROVIDED FOR EACH CAMERA LOCATION.

CAMERA POLE WIRING DIAGRAM

Red Light Camera Installation - Camera Pole Wiring Diagram

CONDUENT

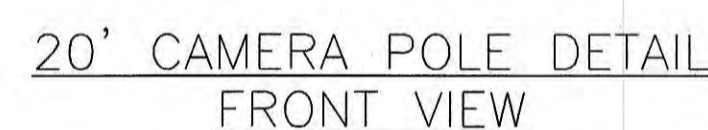
12410 MILESTONE CENTER DRIVE
4TH FLOOR
GERMANTOWN, MD 20875

4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4626 VOICE (919) 781-4869 FAX
NCPE LICENSE NO.: F-0105

	SR 2018/2108 (E. Millbrook Rd) at SR 2030 (Old Wake Forest Rd)		SEAL 	
	Division 5	Wake County		Raleigh
	PLAN DATE: Apr 2017	REVIEWED BY:		
	PREPARED BY:	MAN PROJECT NO.: 9767.00		
SCALE	REVISIONS	INIT.	DATE	
NONE				

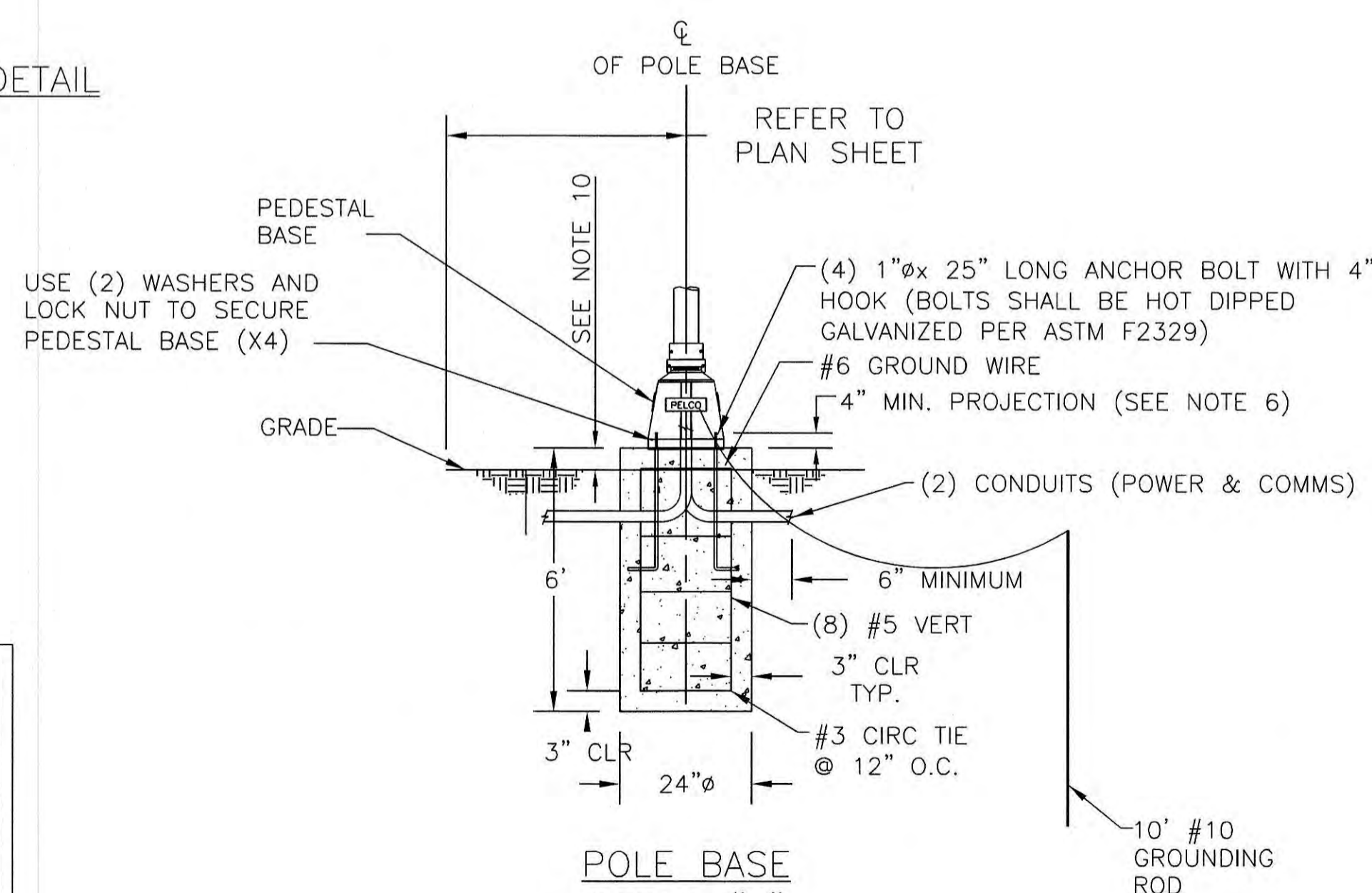
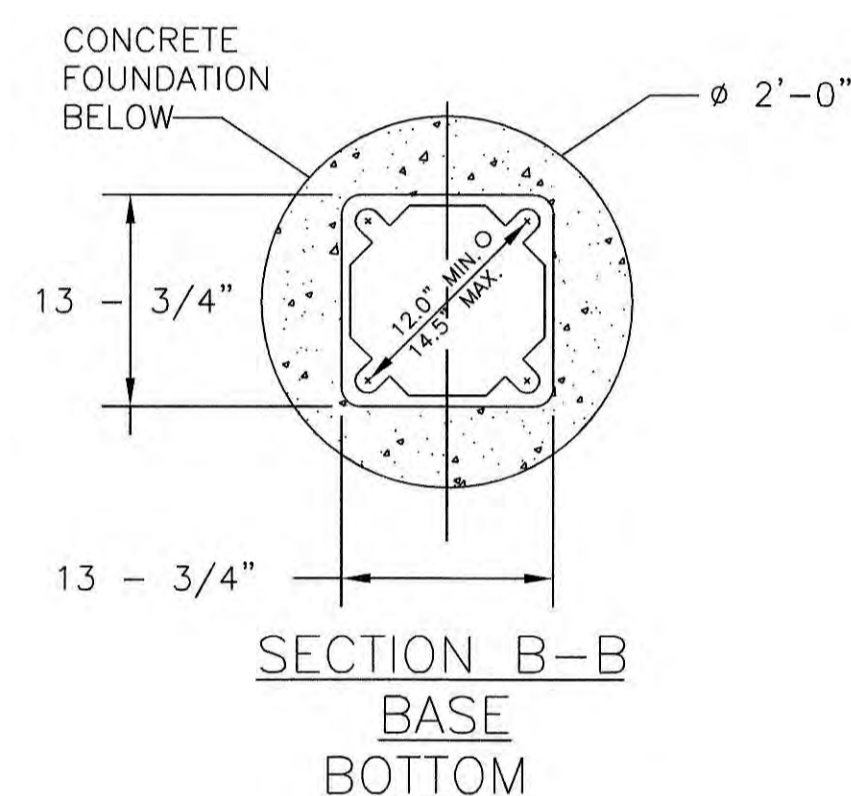
4-26-2017

SIG. INVENTORY NO. 05-0467

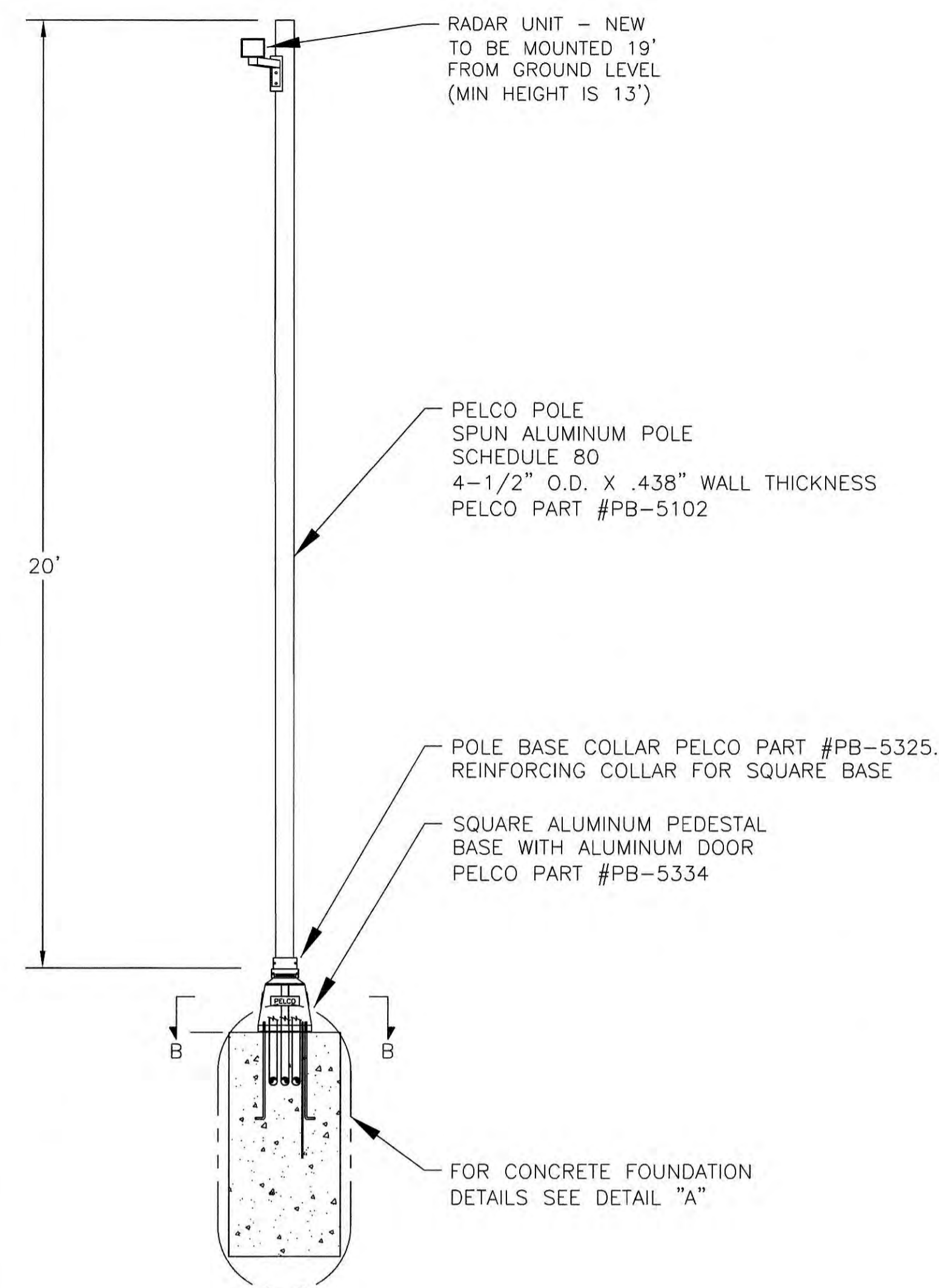


NOTE:
THE RESISTANCE MEASUREMENTS BETWEEN
THE SAFETY GROUNDING ROD AND THE
GROUND SHALL NOT EXCEED 5 OHMS. IF
MEASUREMENTS ARE GREATER THAN 5 OHMS,
THE CONDUENT CONSTRUCTION MANAGER IS
TO BE NOTIFIED

- NOTES:**
1. ALL CONCRETE SHALL BE 4000 PSI COMPRESSIVE STRENGTH.
 2. ALL RE-BAR SHALL HAVE YIELD STRENGTH FY=60KSI
 3. THE PLACEMENT OF CONCRETE AND RE-BAR SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-02.
 4. ALL ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 55, S1 WITH A563 NUT AND F436 WASHER.
 5. CONTRACTOR SHALL PROTECT EXCAVATIONS FROM INCLEMENT WEATHER UNTIL CONCRETE HAS BEEN POURED.
 6. CONTRACTOR TO VERIFY BOLT PROJECTION IN FIELD BEFORE INSTALLATION OF SHAFT.
 7. ALL PEDESTAL BASE ASSEMBLIES ARE TO BE BREAKAWAY.
 8. BASEPLATE BOLTS SHALL BE GALVANIZED 3/4" DIA. A307 WITH HEAVY HEX NUTS AND HARDENED WASHERS ON TOP AND BOTTOM.
 9. ALL SUPPORT GROUNDING SHALL BE BONDED TOGETHER TO FORM A GROUNDING SYSTEM.
 10. CONTRACTOR SHALL INSTALL TOP OF DRILLED SHAFT 4" ABOVE EXISTING GRADE. AT LOCATIONS WHERE DRILLED SHAFT IS ADJACENT TO OR WITHIN THE LIMITS OF EXISTING SIDEWALK PAVING, CONTRACTOR SHALL INSTALL TOP OF DRILLED SHAFT FLUSH WITH EXISTING CONCRETE SURFACE.

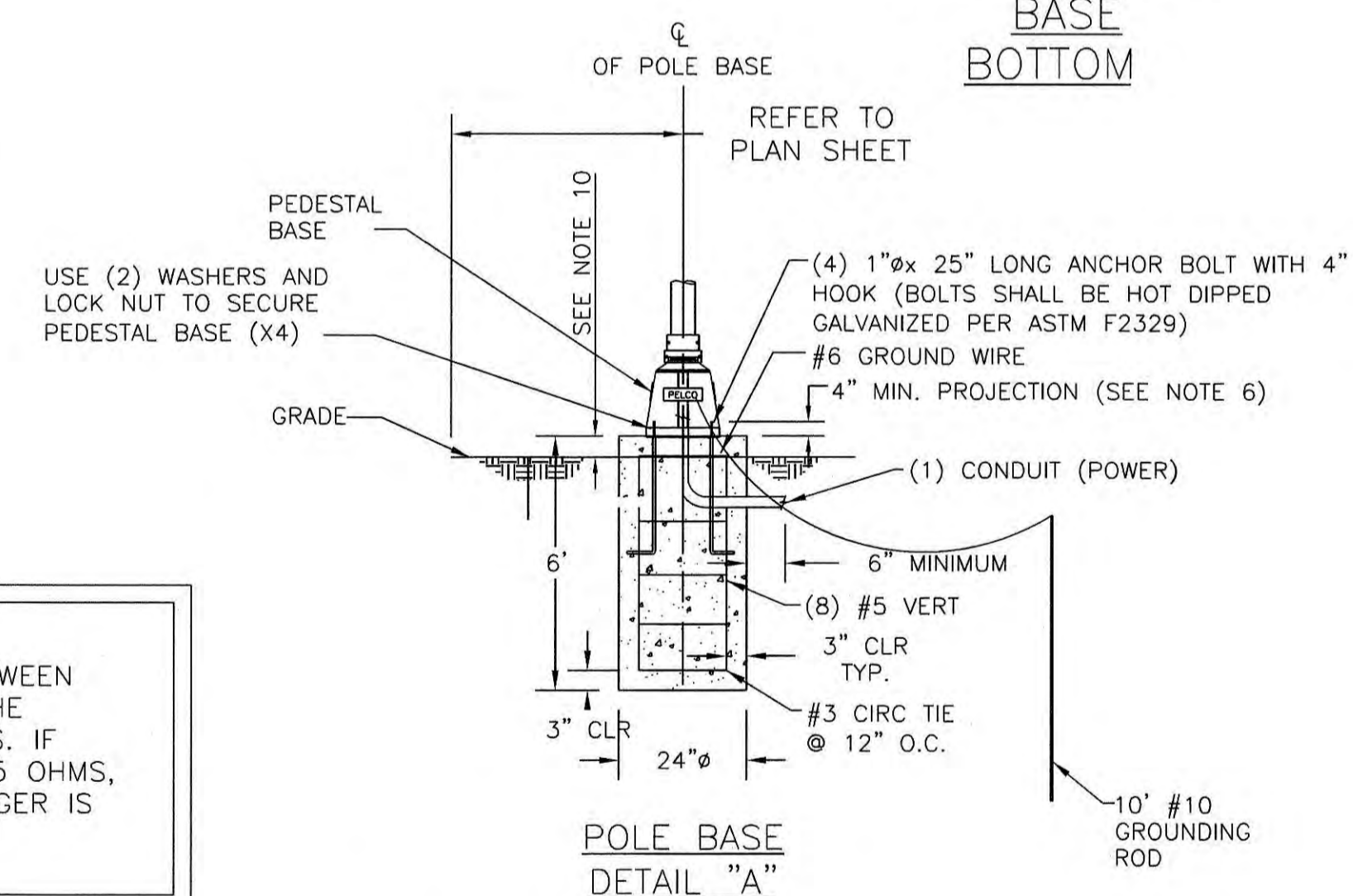


CAMERA UNIT POLE DETAILS





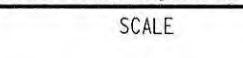
20' RADAR POLE DETAIL
FRONT VIEW

NOTE:
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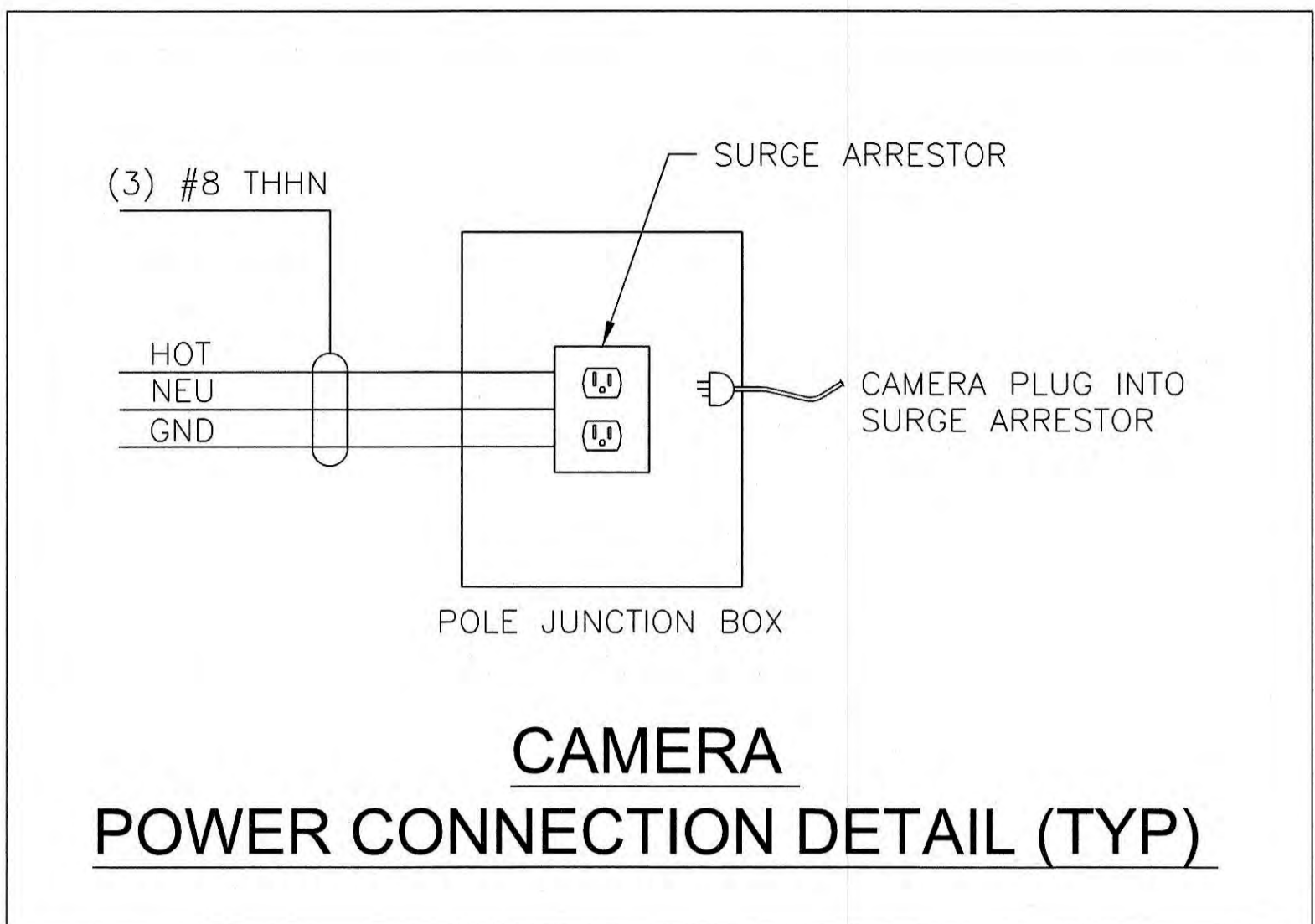


RADAR POLE DETAILS

Red Light Camera Installation - Camera & Radar Pole Details

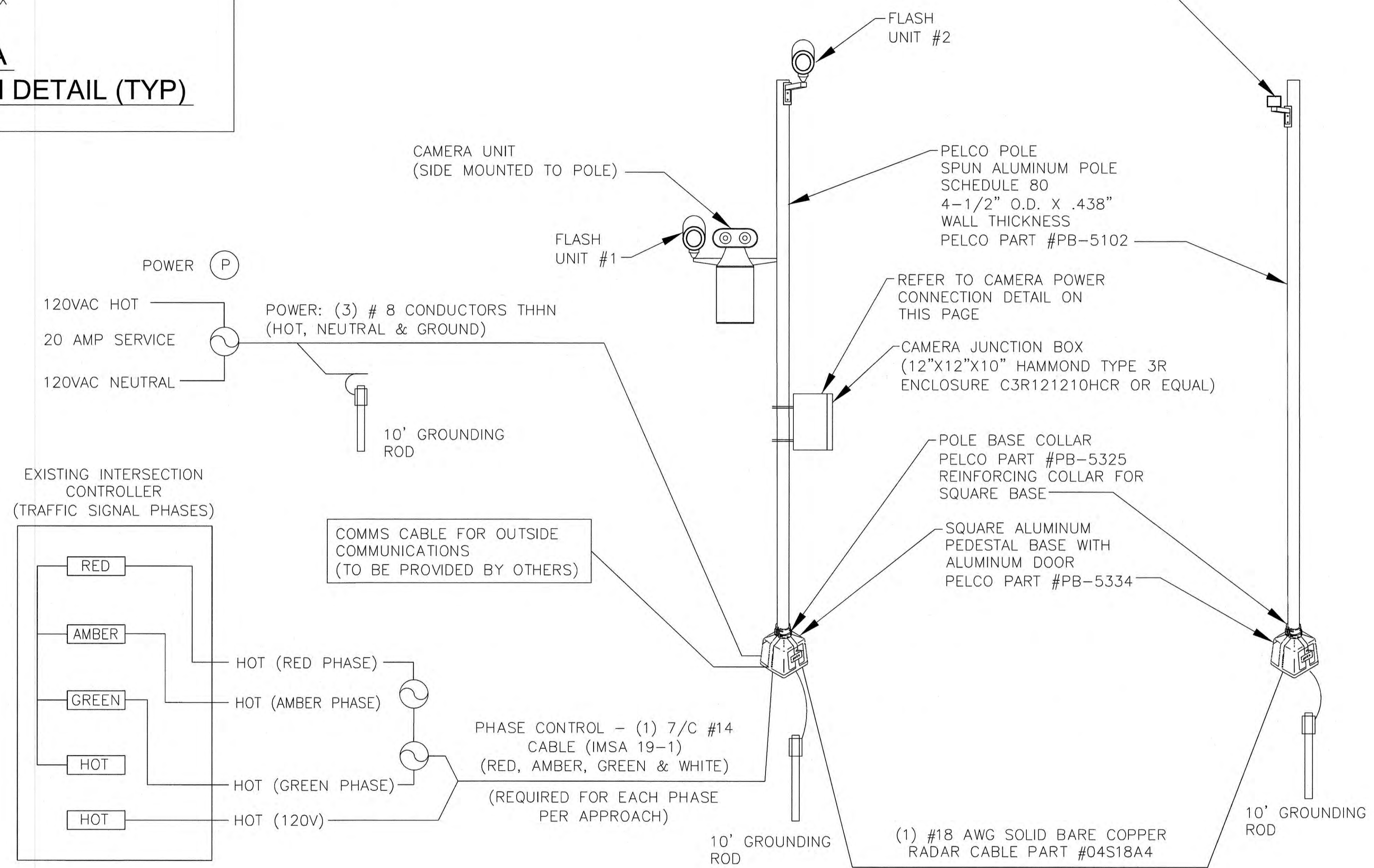
 12410 MILESTONE CENTER DRIVE 4TH FLOOR GERMANTOWN, MD 20876	 4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4889 FAX NCPE LICENSE NO.: F-0105	<p style="text-align: center;"><i>Prepared For the Offices of:</i></p> <div style="text-align: center;">  </div> <p style="text-align: center;">TRANSPORTATION MOBILITY AND SAFETY DIVISION DEPARTMENT OF TRANSPORTATION STATE OF NORTH CAROLINA Signal Design Section</p> <hr/> <p><i>750 N. Greenfield Pkwy, Garner, NC 27529</i></p> <p style="text-align: center;">SCALE</p> <p style="text-align: center;">NONE</p>
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SR 2018/2108 (E. Millbrook Rd) at SR 2030 (Old Wake Forest Rd)		SEAL
Division 5	Wake County	Raleigh
PLAN DATE: Apr 2017	REVIEWED BY: [Redacted]	
PREPARED BY: [Redacted]	MMN PROJECT NO.: 9767.00	
REVISONS	INIT.	DATE
		A-26-2019
		SIG. INVENTORY NO. 05-0467



SYSTEM POWER INPUT REQUIREMENT		
INPUT		VOLTAGE
SYSTEM MAIN INPUT		100 ~140VAC
SIGNAL DETECT MODULE (TRAFFIC LIGHT PHASE INPUT)	LOW	BELOW 6VAC
	HIGH	ABOVE 20VAC
	POWER	LESS THAN 1W

RADAR UNIT - NEW
TO BE MOUNTED 19'
FROM GROUND LEVEL
(MIN HEIGHT IS 13')



**CAMERA UNIT
CONFIGURATION WITH APPROACHING RADAR DETECTION**



**Red Light Camera Installation - Camera Unit/Flash Unit
Configuration With Approaching Radar Detection**

*****SYSTEMS*****
*****DESIGN*****
*****DRAWING*****
*****RLE 05-0467*****

CONDUENT

12410 MILESTONE CENTER DRIVE
4TH FLOOR
GERMANTOWN, MD 20876

PREPARED BY:
moffatt & nichol
4700 FALLS OF NEUSE ROAD, SUITE 300
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NCE LICENSE NO.: F-9105

Prepared For the Offices of:  Signal Design Section		SR 2018/2108 (E. Millbrook Rd) at SR 2030 (Old Wake Forest Rd) Division 5 Wake County Raleigh		SEAL
PLAN DATE: Apr 2017		REVIEWED BY: [Signature]		 4-26-2017
PREPARED BY: [Signature]		MAN PROJECT NO.: 9767.00		
SCALE		REVISIONS		
NONE		INIT. DATE		
				SIG. INVENTORY NO. 05-0467